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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 10/612,439 | 07/01/2003 | Ilias Belharouak | Q170-US1 | 6593 |
| 31815 7: | 590 06/23/2006 | | EXAM | INER |
| MARY ELIZABETH BUSH | | | MAPLES, JOHN S | |
| QUALLION L | LC | | | |
| P.O. BOX 923127 | | | ART UNIT | PAPER NUMBER |
| SYLMAR, CA 91392-3127 | | | 1745 | |
| | | DATE MAILED: 06/23/2006 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | |
|---|---|-----------------------------|--|--|--|--|
| Office Action Commence | 10/612,439 | BELHAROUAK ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | John S. Maples | 1745 | | | | |
| The MAILING DATE of this communication appeariod for Reply | ears on the cover sheet with the c | orrespondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(\$) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on | | | | | | |
| | -· action is non-final. | | | | | |
| | , | | | | | |
| <i>,</i> — | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| • | • | | | | | |
| Disposition of Claims | | | | | | |
| 4)⊠ Claim(s) <u>1-64</u> ie/are pending in the application. | | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| | 5) Claim(s) is/are allowed. | | | | | |
| 6) Claim(s) is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) <u>1-64</u> are subject to restriction and/or e | lection requirement. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examiner | • | | | | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: | | | | | | |
| 1. ☐ Certified copies of the priority documents | have been received. | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| oco uno attaoned detalled Office action for a list of the certified copies flot received. | | | | | | |
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| Attachment(s) | " – | (DTO 440) | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date | | | | | | |
| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date | | atent Application (PTO-152) | | | | |
| S. Patent and Trademark Office | | | | | | |

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Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C.

- Claims 1-9, drawn to a method for making a positive active material, classified in class 423, subclass 306.
- II. Claims 10-21, drawn to a positive active material, classified in class 423, subclass 299.
- III. Claims 22-30, drawn to a first positive electrode, classified in class 429, subclass 217.
- IV. Claims 31-42, drawn to a first battery, classified in class 429, subclass 231.1.
- V. Claims 43-52, drawn to a second positive electrode, classified in class 429, subclass 233.
- VI.. Claims 53-64, drawn to a second battery, classified in class 429, subclass 231.8.
- 2. The inventions are distinct, each from the other because of the following reasons: Groups V and VI are different than Groups I-IV because the former include a current collector having a coating of carbon thereon, which feature is not part of any of Groups I-IV.

Inventions V and VI are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed

does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not require the carbon coating, for example, being less than 2 microns thick. The subcombination has separate utility such as for use in a capacitor.

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Group I is distinct from Groups II-IV because Groups II-IV could be formed by a different method than Group I such as by merely coating the olivine or nasicon with carbon without utilizing carbon gas.

Inventions II and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the electrode of Group III does not require the amount of deposited carbon to be less than about 4%. The subcombination has separate utility such as for use in an electrode for a capacitor.

Inventions II and IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the

particulars of the subcombination as claimed because the battery of Group IV does not require the carbon being deposited in the pores of either the olivine or nasicon. The subcombination has separate utility such as for use in a capacitor.

Finally, Groups III and IV are different from each other because Group III includes a binder in the coating on the current collector, which feature is not part of the Group IV battery. In addition, the Group IV battery comprises a carbon amount deposited on the olivine or nasicon to be less than 4%, a limitation not part of Group III.

- 3. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their different classification and recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the

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record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Maples whose telephone number is 571-272-1287. The examiner can normally be reached on Monday-Thursday, 6:15-3:45, every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JSM/6-19-2006